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TALENT-KEYHOLE

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TCS-9201-64  
17 November 1964Copy 1Information Processing Division  
Report for July 1964General

1. July was largely a month of consolidation and shakedown. The two separate entities which were merged into the Programming Branch slowly began to lose their identity and become molded into one group. The four members of the Systems Branch, who came from four different organizations, consolidated their ideas and in conjunction with   LMSC, formulated their basic objectives and modus operandi.

50X1  
50X1

2. The Automated Reporting Subcommittee meet weekly and discussed in depth the need for standardized order-of-battle type reporting with the capability to automatically manipulate and accumulate the data on individual sites into summary reports formatted in accordance with the customers' wishes.

3. The Subcommittee reached agreement on the utilization of IBM 826 Document Producing Card Punches in the Immediate Reporting cycle. These machines produce a typewritten proof copy at the same time IBM cards are punched and will replace the present step of typing a clean copy of items for OAKs, IPIRs and MCIs before the individual items are given final edit and coordination checks and forwarded to keypunch. Correction routines will also be written to permit the insertion and deletion of text material without having to repunch entire sentences or paragraphs. Initial feasibility and comparison tests indicate the 826 procedures will save up to one third the manhours currently required to type and keypunch OAKs, IPIRs and MCIs. We estimate that a three month programming effort will be required before the system can be put into full operation.

4. Negotiations with LMSC for extension of the contract for programming services continued. Based on June discussions LMSC proposed an extension with a slowly diminishing level of effort running through FY 66. This would have required allocation of additional funds which we felt was neither feasible nor justified. Accordingly it was agreed

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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to limit the extension to the end of FY 65 and   
returned to LMSC to revise their costs estimates.

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Programming Branch

1. Three new projects were started during the month:
  - a. "O" System camera analysis
  - b. Reduction of "O" system INS data
  - c. Computation of distances and azimuths of a given point from specific geographic coordinates.
2. The documentation of the changes LMSC made in the KH-4 ephemeris program arrived; we hope to complete modification of our programs by September.
3. A new program for calculation of pitch and roll data from KH-4 horizon images was completed. The new system provides greater accuracy and is easier for the photogrammetrists to read the necessary input data.

Operations Branch

1. The 1401 was successfully repaired by IBM and its reliability restored after the major breakdown at the end of June. July down time was only 5.5 hours; total production time was 240 hours of which 27 hours was used for program assembly and checkout. 116 requests (110 National and 6 Departmental) were processed in addition to 5 OAKs, 12 IPIRs, and 17 MCIs.
2. The 490 was used 208 hours, half for production and half for program assembly and testing.
3. Minicard handled:
  - a. 70 information retrieval search requests

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- b. 1,084 enlargements
- c. 68 PID informals
- d. The WAC Mosaic File was file expanded and block sorted. 22 requests were made against this file during the month.
- e. The Binary data blocks for KH-4 missions 1007-2, 1008-1 and 1008-2 were read.
- f. A shipment of 19,475 minicards were received from SAC, bringing the total NPIC holdings of SAC UPIRs to 29,475 Minicards.

4. Installation of the PAKO paper processor was completed. However, full utilization is dependent upon receipt of a light-tight roll-paper take-up spool for the Minicard enlarger. Machine Division, OCR, is fabricating the device.

### Training

1. A class in NELIAC compiler language was taught by [redacted] LMSC, for all programmers. Many of the newly started programs are being written in NELIAC -- a compiler like FORTRAN and ALGOL. This marks the completion of major revisions to NELIAC made in-house by LMSC contractors to adapt it to the 490 real-time system. We plan a continuing effort to further develop and improve the power of the compiler in accordance with experienced needs.

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2. [redacted] instructed [redacted] in card punch operation using the two week programmed Pre-ceptiscope Course.

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3. [redacted] completed the IBM 1401 Programming Course.

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4. [redacted] completed the Punched Card Principles (407) Course at IBM.

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Personnel

1. [ ] transferred to the Systems Branch from Plans and Development Staff. He will be specializing in Document Storage and Retrieval (Minicard), Program Analysis, and Photo Chip Systems. The Systems Branch is now up to authorized strength. 50X1

2. [ ] EODed with the Programming Branch; [ ] with the Operations Branch. 50X1  
50X1

3. [ ] both resigned from IMSC and left NPIC to accept other employment. 50X1

[ ]  
Chief, Information Processing Division

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